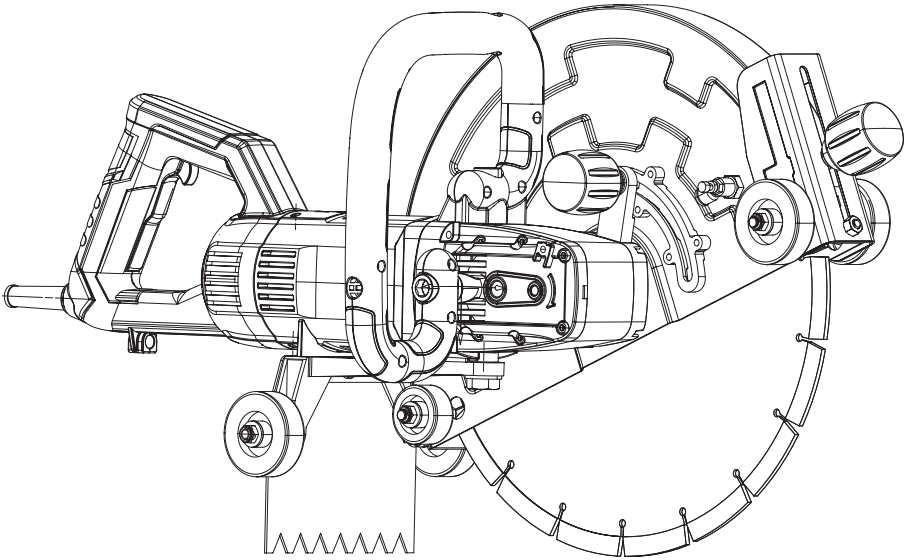


## ORIGINAL SAFETY AND OPERATING INSTRUCTIONS CONCRETE SAW



**⚠ WARNING:** To reduce the risk of injury, the user must read and understand the operator's manual.

Model#: 429-1













**SAVE THIS MANUAL FOR FUTURE REFERENCE**



Distributed by:  
Hangzhou GreatStar Industrial Co., Ltd.  
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[www.greatstartools.com](http://www.greatstartools.com)  
Made in China

# SYMBOLS

	To reduce the risk of injury, user must read instruction manual
	Wear ear protection
	Wear eye protection
	Wear dust mask
	Wear head protection
	Beware of pruning saw kickback and avoid contact with bar tip
	Do not expose to rain
	Wear protective gloves
	Wear protective footwear
	Warning of danger from overhead electric-power lines
	Do not burn
	Batteries may enter water cycle if disposed improperly, which can be hazardous for ecosystem. Do not dispose of waste batteries as unsorted municipal waste.
	Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.
	Do not burn

	Batteries may enter water cycle if disposed improperly, which can be hazardous for ecosystem. Do not dispose of waste batteries as unsorted municipal waste.
	Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.
	Li-Ion battery. This product has been marked with a symbol relating to 'separate collection' for all battery packs and battery pack. It will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.
	Lock
	Unlock
	Warning!
	Keep Hands away. Do not place your hand on or below the line marked with this symbol on the front handle. Ensure hand is kept above the line & symbol at all times to ensure a safe distance between your hand and the blade. Failure to do so may cause injury.
	Only use diamond blades, do not use toothed blades
	Don't use defected or broken blades
	High risk of kickback
	Risk of dust inhalation
	Risk of Fire. Ensure surrounding area is free from flammable materials.

## DANGER!

When using the equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating instructions and safety regulations with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, hand over these operating instructions and safety regulations as well. We cannot accept any liability for damage or accidents which arise due to a failure to follow these instructions and the safety instructions.

## 1. SAFETY REGULATIONS

### WARNING!

**Read all safety warnings, instructions, illustrations and specifications provided with this power tool.**

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

### 1) Work area safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### 2) Electrical Safety

- **Power tool plugs must match the outlet. Never modify the plug in any way.** Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.** Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

**NOTE:** The term "residual current device (RCD)" may be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".

### 3) Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- **Dress properly.** Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

### 4) Power Tool Use and Care

- **Do not force the power tool.** Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.** If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc.** In accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

## 5) Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

## 2. Cut-off machine safety warnings

- a) **The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** Position yourself and bystanders away from the plane of the rotating wheel. The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
- b) **Use only bonded reinforced or diamond cut-off wheels for your power tool.** Just because an accessory can be attached to your power tool, it does not assure safe operation.
- c) **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- d) **Wheels must be used only for recommended applications.** For example: do not grind with the side of cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- e) **Always use undamaged wheel flanges that are of correct diameter for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.
- f) **Do not use worn down reinforced wheels from larger power tools.** Wheels intended for a larger power tool are not suitable for the higher speed of a smaller tool and may burst.
- g) **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- h) **The arbour size of wheels and flanges must properly fit the spindle of the power tool.** Wheels and flanges with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- i) **Do not use damaged wheels.** Before each use, inspect the wheels for chips and cracks. If power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute. during this test time. Damaged wheels will normally break apart.
- j) **Wear personal protective equipment.** Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- k) **Keep bystanders a safe distance away from work area.** Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken wheel may fly away and cause injury beyond immediate area of operation.

- j) **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- m) **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning wheel.
- n) **Never lay the power tool down until the accessory has come to a complete stop.** The spinning wheel may grab the surface and pull the power tool out of your control.
- o) **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- p) **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- q) **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- r) **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.
- s) **Do not use this machine to cut asbestos.**
- t) **In operations using a cutting wheel, if sparks come out, cover the dust collection adapter with a rubber cap and be sure to wear protective glasses.**
- u) **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

### 3. FURTHER SAFETY INSTRUCTIONS FOR ALL SAWS

#### CAUSES AND OPERATOR PREVENTION OF KICKBACK:

- Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.
- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

#### KICKBACK AND RELATED WARNINGS

Kickback is a sudden reaction to a pinched or snagged rotating wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled power tool to be forced in the direction opposite of the wheel's rotation at the point of the binding. For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/ or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a) **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces.** Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.
- b) **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- c) **Do not position your body in line with the rotating wheel.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- d) **Use special care when working corners, sharp edges etc.** Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- e) **Do not attach a saw chain, woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade.** Such blades create frequent kickback and loss of control.
- f) **Do not "jam" the wheel or apply excessive pressure.** Do not attempt to make an excessive depth of cut. Over stressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
- g) **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop.** Never attempt to remove the wheel from the cut while the wheel is in motion otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of wheel binding.

**h) Do not restart the cutting operation in the workpiece.** Let the wheel reach full speed and carefully re-enter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.

**i) Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

**j) Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

## HEALTH ADVICE

**⚠ WARNING:** When using this machine, dust particles may be produced. In some instances, depending on the materials you are working with, this dust can be particularly harmful. If you suspect that paint on the surface of material you wish to cut contains lead, seek professional advice. Lead based paints should only be removed by a professional and you should not attempt to remove it yourself. Once the dust has been deposited on surfaces, hand to mouth contact can result in the ingestion of lead. Exposure to even low levels of lead can cause irreversible brain and nervous system damage. The young and unborn children are particularly vulnerable. You are advised to consider the risks associated with the materials you are working with and to reduce the risk of exposure. As some materials can produce dust that may be hazardous to your health, we recommend the use of an approved face mask with replaceable filters when using this machine.

You should always:

- Work in a well-ventilated area.
- Work with approved safety equipment, such as dust masks that are specially designed to filter microscopic particles.

**⚠ WARNING:** the operation of any power tool can result in foreign objects being thrown towards your eyes, which could result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shield or a full face shield where necessary.

## ADDITIONAL SAFETY INSTRUCTIONS WARNING:

Always disconnect the Concrete Saw from the mains supply before cleaning, carrying out maintenance or changing blades.

- Keep your hands away from cutting area or the blade. If both your hands are holding the machines handles, they cannot come into contact with the diamond cutting blade.
- Never engage the spindle lock button while the machine is running. Serious damage could occur to the machine and a potentially dangerous situation could arise for the operator.
- Only use cutting blades or other approved cutting blades as speckled by the manufacturer.
- Visually check the cutting blade before starting the machine. If it is cracked, broken or bent, do not use it. Carefully start the machine and check for any unusual noises, vibration or other abnormalities.
- Be careful when cutting metal. Using the diamond blade to cut metal (reinforcing rods embedded in concrete) will shorten its service life. Use a specialist metal cutting blade where possible.
- Allow the cutting blade to reach full speed before beginning a cut. Start working only when maximum speed is reached.
- Do not use excessive force. Excessive force overloads the motor and reduces working efficiency and service life. Only cut concrete, tile or stone to a maximum cutting depth of 50mm or less. If the cutting depth ultimately required is greater than 50mm, cut the workpiece 2 or 3 times. If a cutting depth of more than 50mm is attempted in one pass the service life of the cutting blade could be reduced and motor damage occur.
- Install the dust extraction port cover when a dust collection hose is not in use. During cutting operations sparks could be generated. Cover the dust extraction port with its rubber cap and be sure to wear protective glasses.
- Never use a damaged or incorrect arbor bolt or blade flanges. The blade flanges and arbor bolt were specially designed for your machine and will provide optimum performance during cutting operations.
- This machine is fitted with the correct moulded plug and mains lead for the intended country of use. Do not alter or modify the mains cable or plug in any way. If the mains lead or the plug are damaged in anyway, they must be replaced with original replacement parts by a competent technician.

- Where possible always use a method of dust control when cutting concrete, either Dust extraction or water suppression where applicable. When using dust extractors with Evolution Disc Cutters ensure these are rated as Class M or Class H when cutting concrete.

**⚠ WARNING:** This machine must not be used to cut any material that may contain asbestos. If the presence of asbestos is suspected, consult the relevant authorities for advice.

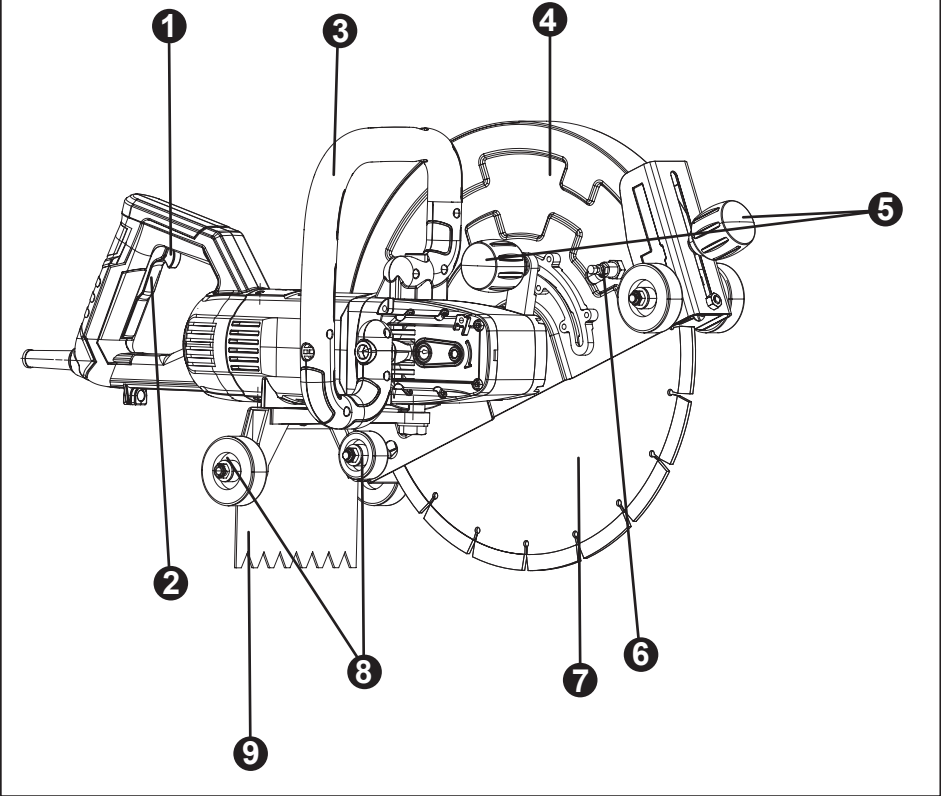
### **Personal Protective Equipment**

**Note:** If using this equipment on a construction site it is important that the operator conforms to any site rules/regulations that may apply. Consult the site foreman or other responsible person for details.

- Wear suitable clothing. This could include a Boiler Suit or Padded Coverall and Hi Vis jacket etc.
- Wear suitable footwear. Safety shoes with steel toecaps and anti-slip soles are recommended.
- Wear suitable Safety Glasses. A Full Face Safety Shield or Safety Goggles with side shields is recommended.
- Protect your hearing. Wear suitable ear protectors.
- Wear suitable gloves. High grip gloves are recommended.
- Wear respiratory protection. A dust mask with replaceable filters which provide protection against fine toxic dust, fibres and vapours is recommended.
- Wear a Safety Helmet. The use of a Safety Hat may be compulsory on some construction sites to protect the operator from potential overhead dangers.

# COMPONENT LIST

Fig. 1



- 1. Safty lock
- 2. Power Switch
- 3. Auxiliary handle
- 4. Adjustable Blade Guard
- 5. Angle adjustment
- 6. Water pipe interface
- 7. Saw blade
- 8. Rolling wheel
- 9. Fender

## ITEMS SUPPLIED

### CARTON CONTENTS

- Concrete Saw
- 16" (400mm) Diamond Disc Blade
- A pair of carbon brush
- A Residual Current Device (RCD)
- Wrench
- Water Pump
- Facuet
- Facuet Connect pipes
- Original safety and operating instructions

- Carefully check to see that all of the above items are supplied.
- Inspect the product carefully to make sure no breakage or damage occurred during shipping. If you find damaged or missing parts, please contact us at the first time.

**NOTE:** Do not discard the shipping carton and packaging material until you are ready to use your new cordless electric stapler. The packaging is made of recyclable materials. Properly dispose of these materials in accordance with local regulations.

### IMPORTANT!

The equipment and packaging material are not toys. Do not let children play with plastic bags, foils or small parts. These items can be swallowed and pose a suffocation risk!

## TECHNICAL DATA

Rated Voltage	120V~
Rated Frequency	60Hz
Rated Power	1600W
No Load Speed	3100rpm
Mass of Tool	11.5kg
Protection Class	□ / II
<b>Blade Dimensions</b>	
Minimum Diameter	9" (230mm)
Bore Diameter	1" or 2" (25.4mm or 50mm)
Maximum Diameter	18" (420mm)
Bore Diameter	1" or 2" (25.4mm or 50mm)
Blade Diameter (Blade included with the packaging)	16" (400mm)

## OPERATING INSTRUCTIONS



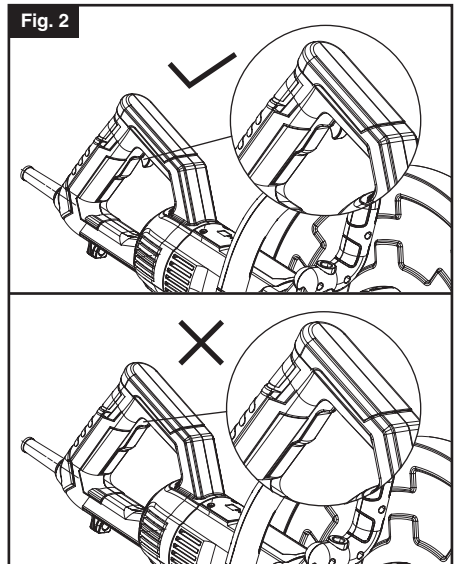
**NOTE:** Before using the tools, read the instruction book carefully.



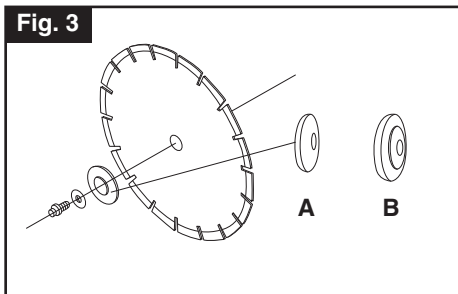
Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.



Ensure that the power switch is in the OFF position. If the plug is connected to a power receptacle while the power switch is in the ON position, the power tool will start operating immediately, which could cause a serious accident.



When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

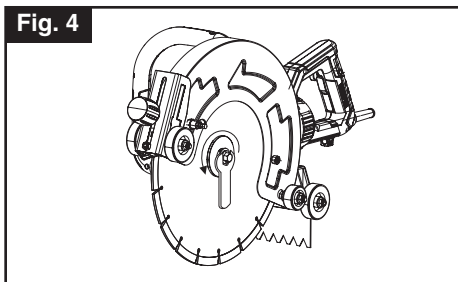
**Fig. 3**

### 1) Checking and installing the diamond blade

Check the diamond blade is a specified one and is not cracked, broken or bent. Check the diamond blade is installed securely.

#### a. Installation

- (1) Wipe the cutting dust from the spindle and washers.
  - (2) Make sure the rotation direction of the diamond blade conforms to the direction indicated on the blade guard and install the diamond blade as shown in Fig. 3 and Fig. 4.
- When the bore diameter of the saw blade is 1" (25.4mm), install the flange in the direction of A in Fig. 3
  - When the bore diameter of the saw blade is 2" (50mm), install the flange in the direction of B in Fig. 3
- (3) Firmly secure the spindle by tightening the bolt with the provided wrench until fully fastened. Ensure proper fixation through manual verification.
  - (4) Manually rotate the blade to confirm smooth spindle movement and verify secure installation without resistance.

**Fig. 4**

#### NOTE

- Always use the provided wrench to secure the bolt.
- Be careful because the bolt tightens to the left (counterclockwise direction) to prevent it from being loosened during cutting.

#### b. Removal

Remove the bolt with the provided wrench and remove the diamond blade.

## CUTTING

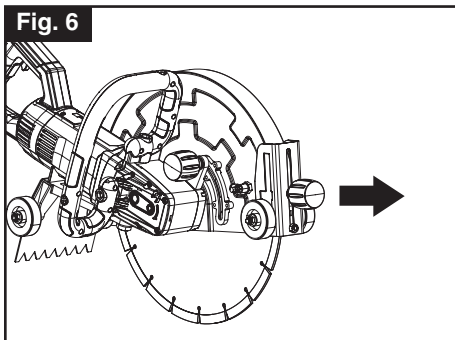
### PRE-CUTTING CHECKS

#### Important!

- Verify that the power supply corresponds to the specifications indicated on the machine's rating plate.
- Make sure the machine's trigger switch is set to the 'OFF' position. (Fig. 2) Connecting the machine to a power source while the trigger switch is in the 'ON' position could cause the machine to start unexpectedly, leading to a serious accident.
- If an extension cable is necessary, it must be appropriate for the work environment. When used outdoors, it should be waterproof and clearly labeled as such.
- Always adhere to the manufacturer's instructions when using an extension cable.
- Position any extension cable in a way that prevents it from creating a tripping hazard or any other risk to the operator, colleagues, or bystanders.

### 1) Blade Guard guard adjustment (Fig.6)

Adjust the blade guard angle with the knob so dust and debris from the material or sparks do not contact the operator during the cutting operation.

**Fig. 6**

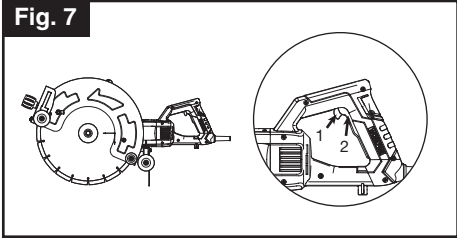
Check that the knob used to secure the blade guard is tight. Make sure that the knob that secures the blade guard is adequately tight.

**If this knob is loose, it may result in injury to the operator.**

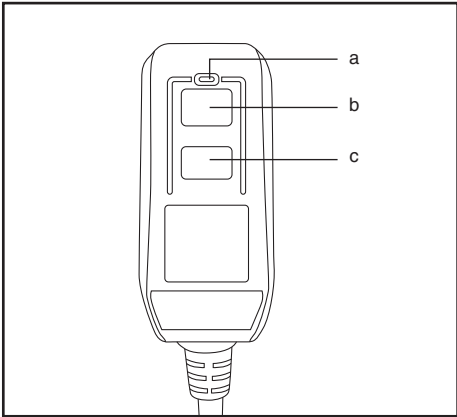
### 2) ON/OFF SWITCH (Fig. 7)

TO start the machine, press the safety lock (1) first, then press the power switch (2); the machine starts and locks.

TO STOP THE MACHINE, press the trigger again, the trigger pops out.



For Residual Current Device (RCD) operation please follow these instructions:



- When plugging the saw in the RCD will need to be reset before the saw will power on. Plug the saw in, press the reset button on the RCD, there will be a click. (b)
- The indicator window will change to RED to show the power is on. (a)
- To test, press the TEST button. Again, there will be a click and the indicator window will switch to black showing the power is off. (c)
- Press the reset button again to reset and use the saw.

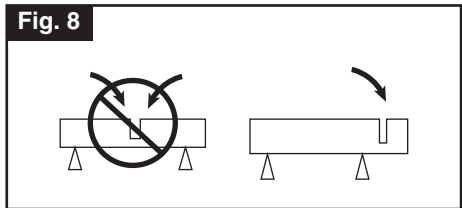
**Note:** If the RCD trips during use, simply press RESET.

**Cutting Procedures**

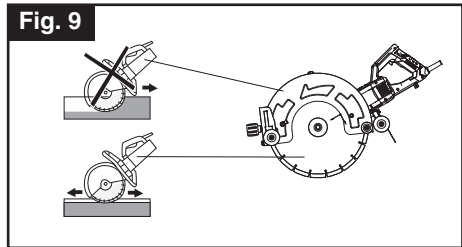
- (1) Place this tool on the material to be cut and align the pre-marked line and the diamond blade.
- The cutting can be performed smoothly if you cut straight ahead on the scribe line in the initial cut.
- (2) Turn on the switch when the diamond blade is not touching the material to be cut.

**CAUTION**

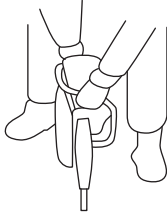
- Always check the diamond blade before starting work. Never use a diamond blade which is cracked, broken or bent.
- Do not apply water or coolant to the diamond blade.
- Start cutting only when diamond blade reaches its maximum speed.
- If the diamond blade seizes or there is any abnormal noise, immediately turn the power off.
- Never use the diamond blade to cut zigzag or curved lines. Never use the side surface of the diamond blade. Never use to perform inclination cutting.
- If excessive force is applied to the diamond blade to make it align with the pre-marked line during cutting, this might not only overload the motor and cause burn damage but may also overheat the diamond blade and shorten the service life.
- Take care not to allow the power cord to come into contact with the diamond blade during operation.
- When the work is completed, turn the power off and disconnect the power plug from the receptacle.
- Support the work piece in such a way that it is possible to predict what will happen, and so that the cut remains open while cutting. (Fig. 8)



- Check that the blade is not in contact with anything when the machine is started.
- Always cut at the maximum speed.
- Start cutting smoothly, allowing the machine to work without forcing or pressing the blade.
- Move the blade slowly forwards and backwards to achieve a small contact area between the blade and the material to be cut. This reduces the temperature of the blade and ensures effective cutting (Fig. 9).
- Feed down the machine in line with the blade. Pressure from the side can damage the blade and is very dangerous (Fig. 10).



**Fig. 10**



**Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.**

**⚠ WARNING:** Any maintenance must be carried out with the machine switched off and disconnected from the mains power supply.

On a regular basis check that all safety features and guards are operating correctly. Only use this machine if all guards/safety features are fully operational. All motor bearings in this machine are lubricated for life. No further lubrication is required. Use a clean, slightly damp cloth to clean the plastic parts of the machine. Do not use solvents or similar products which could damage the plastic or rubber parts.

Removing the blade from the machine will allow access to the inside of the blade guard. Any build up of debris etc can be removed using a blunt non metallic scrapper or similar tool (not supplied).

**⚠ WARNING:** Do not attempt to clean the machine by inserting pointed objects through openings in the machines casings etc. The machines air vents can be cleaned using compressed dry air. Observe all necessary H&S precautions when using compressed air as a cleaning medium.

Excessive sparking may indicate the presence of dirt in the motor or worn out carbon brushes.

If this is suspected have the machine serviced and the brushes replaced by a qualified technician.

## **9. STORING**

Store the machine, operating instructions and where necessary the accessories in the original packaging. In this way you will always have all the information and parts ready to hand.

Pack the device well or use the original packaging in order to avoid transit damage.

Always keep the machine in dry place

## 10. TROUBLE SHOOTING

Although your new mini circular saw is really very simple to operate, if you do experience problems, please check the following:

Symptom	Possible Causes	Possible Solution
Tool will not start when operating the ON/OFF switch.	Power cord not plugged in. Power cord is broken. Carbon brush has worn down.	Check to make sure power cord is connected well into a working outlet. Unplug the power cord. Replace it by a qualified maintenance person. Replace the carbon brush by a qualified maintenance person.
Blade spins or slips	Blade is not tightly engaged with the spindle.	Remove the blade, and reassemble it as described in <b>Checking and installing the diamond blade</b> section.
Blade kicks back when beginning a cut.	Blade is not spinning fast enough.	Allow the saw blade to reach full speed prior to beginning a cut in the material.

## 11. Disposal

### Disposal of the appliance



A crossed-out wheellie bin icon means: Batteries and rechargeable batteries, electrical or electronic devices must not be disposed of with household waste. They may contain substances that are harmful to the environment and human health.

Consumers must dispose of waste electrical devices, spent portable batteries and rechargeable batteries separately from household waste at an official collection point to ensure that these items are processed correctly. Information on returning these items is available from the seller. Sellers are required to accept these items free of charge. Batteries and rechargeable batteries, which are not permanently installed in waste electrical devices, must be removed prior to disposal and must be disposed of separately. Lithium batteries and battery packs in all systems must only be returned to a collection point when discharged. Batteries must always be protected against short circuits by covering the poles with adhesive tape. All end users are responsible for deleting any personal data stored on waste devices prior to their disposal.

### Disposal of the packaging



The packaging consists of cardboard and correspondingly marked plastics that can be recycled. Make these materials available for recycling.